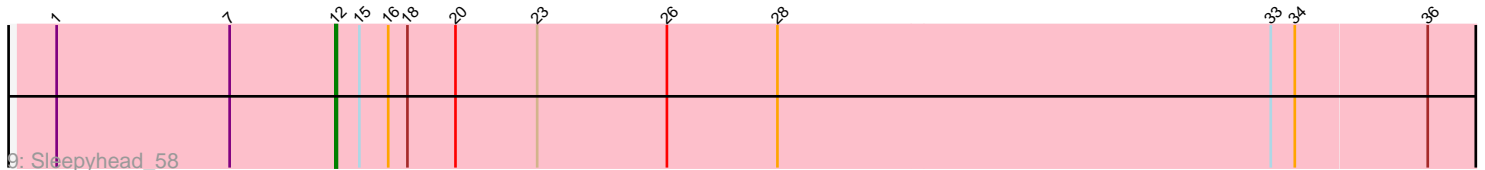
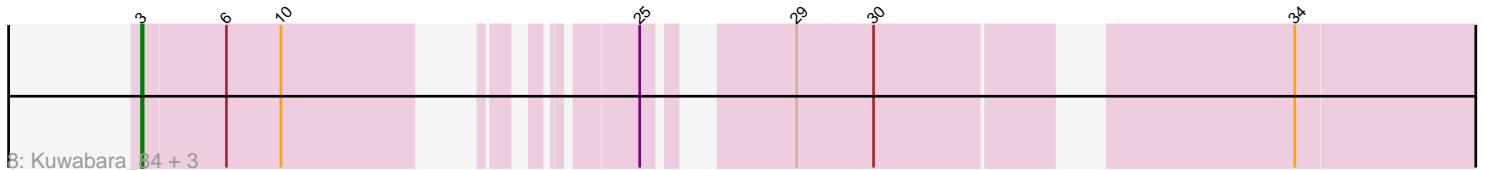
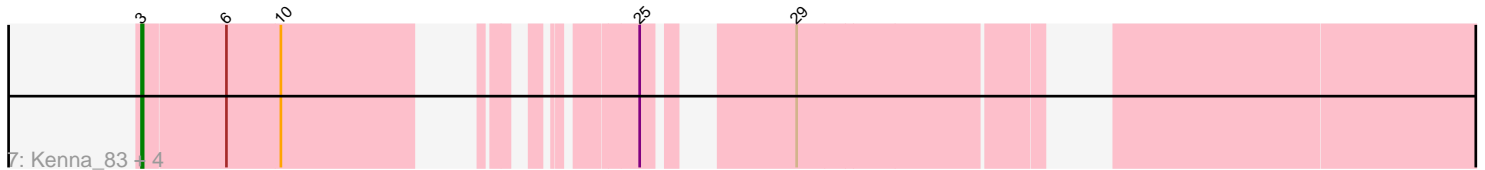
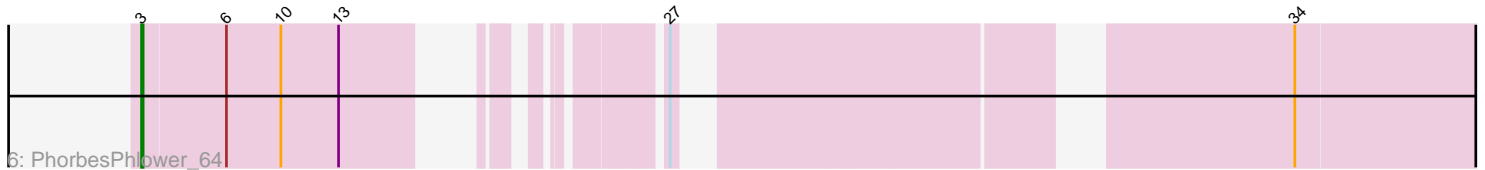
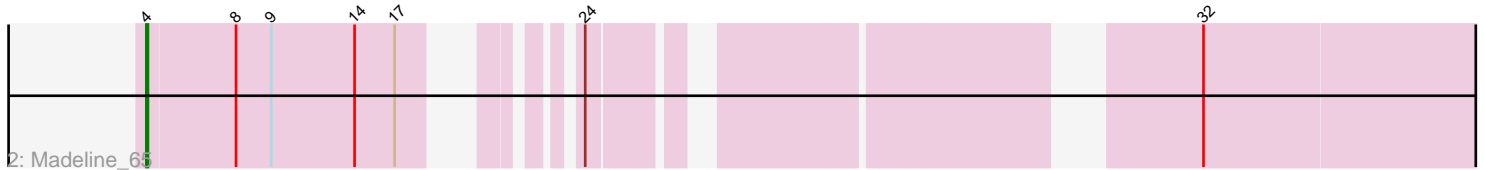


Pham 171826



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

## Pham 171826 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171826 has 17 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Bunnybear\_66
- Track 2 : Madeline\_65
- Track 3 : WelcomeAyanna\_71, ThankyouJordi\_71
- Track 4 : Maridalia\_71
- Track 5 : RavenCo17\_67
- Track 6 : PhorbesPhlower\_64
- Track 7 : Kenna\_83, Phabuloso\_95, BENtherdunthat\_88, Getalong\_91, Lutum\_89
- Track 8 : Kuwabara\_84, Morkie\_66, OneDirection\_60, Lton\_63
- Track 9 : Sleepyhead\_58

### ***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 3, it was called in 14 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BENtherdunthat\_88, Bunnybear\_66, Getalong\_91, Kenna\_83, Kuwabara\_84, Lton\_63, Lutum\_89, Maridalia\_71, Morkie\_66, OneDirection\_60, Phabuloso\_95, PhorbesPhlower\_64, ThankyouJordi\_71, WelcomeAyanna\_71,

Genes that have the "Most Annotated" start but do not call it:

- 

Genes that do not have the "Most Annotated" start:

- Madeline\_65, RavenCo17\_67, Sleepyhead\_58,

### **Summary by start number:**

Start 3:

- Found in 14 of 17 ( 82.4% ) of genes in pham
- Manual Annotations of this start: 14 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BENtherdunthat\_88 (DN1), Bunnybear\_66 (CZ), Getalong\_91 (DN1), Kenna\_83 (DN1), Kuwabara\_84 (DN4),

Lton\_63 (CZ), Lutum\_89 (DN1), Maridalia\_71 (CZ1), Morkie\_66 (DH), OneDirection\_60 (CZ6), Phabuloso\_95 (DN1), PhorbesPhlower\_64 (DH), ThankyouJordi\_71 (CZ1), WelcomeAyanna\_71 (CZ1),

Start 4:

- Found in 2 of 17 ( 11.8% ) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Madeline\_65 (CZ1), RavenCo17\_67 (CZ8),

Start 12:

- Found in 1 of 17 ( 5.9% ) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sleepyhead\_58 (singleton),

### **Summary by clusters:**

There are 8 clusters represented in this pham: singleton, DH, DN4, CZ1, CZ6, CZ8, CZ, DN1,

Info for manual annotations of cluster CZ:

- Start number 3 was manually annotated 2 times for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 3 was manually annotated 3 times for cluster CZ1.
- Start number 4 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ6:

- Start number 3 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster CZ8:

- Start number 4 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DH:

- Start number 3 was manually annotated 2 times for cluster DH.

Info for manual annotations of cluster DN1:

- Start number 3 was manually annotated 5 times for cluster DN1.

Info for manual annotations of cluster DN4:

- Start number 3 was manually annotated 1 time for cluster DN4.

### **Gene Information:**

Gene: BENtherdunthat\_88 Start: 48114, Stop: 48911, Start Num: 3

Candidate Starts for BENtherdunthat\_88:

(Start: 3 @48114 has 14 MA's), (6, 48165), (10, 48198), (25, 48345), (29, 48411),

Gene: Bunnybear\_66 Start: 46245, Stop: 47213, Start Num: 3

Candidate Starts for Bunnybear\_66:

(2, 46236), (Start: 3 @46245 has 14 MA's), (8, 46302), (11, 46347), (21, 46452), (22, 46455), (23, 46485), (30, 46683), (32, 46848), (35, 46974),

Gene: Getalong\_91 Start: 50569, Stop: 51366, Start Num: 3

Candidate Starts for Getalong\_91:

(Start: 3 @50569 has 14 MA's), (6, 50620), (10, 50653), (25, 50800), (29, 50866),

Gene: Kenna\_83 Start: 47387, Stop: 48184, Start Num: 3

Candidate Starts for Kenna\_83:

(Start: 3 @47387 has 14 MA's), (6, 47438), (10, 47471), (25, 47618), (29, 47684),

Gene: Kuwabara\_84 Start: 49956, Stop: 50762, Start Num: 3

Candidate Starts for Kuwabara\_84:

(Start: 3 @49956 has 14 MA's), (6, 50007), (10, 50040), (25, 50187), (29, 50253), (30, 50298), (34, 50523),

Gene: Lton\_63 Start: 37109, Stop: 37915, Start Num: 3

Candidate Starts for Lton\_63:

(Start: 3 @37109 has 14 MA's), (6, 37160), (10, 37193), (25, 37340), (29, 37406), (30, 37451), (34, 37676),

Gene: Lutum\_89 Start: 48549, Stop: 49346, Start Num: 3

Candidate Starts for Lutum\_89:

(Start: 3 @48549 has 14 MA's), (6, 48600), (10, 48633), (25, 48780), (29, 48846),

Gene: Madeline\_65 Start: 47024, Stop: 47905, Start Num: 4

Candidate Starts for Madeline\_65:

(Start: 4 @47024 has 2 MA's), (8, 47078), (9, 47099), (14, 47150), (17, 47174), (24, 47234), (32, 47540),

Gene: Maridalia\_71 Start: 46257, Stop: 47225, Start Num: 3

Candidate Starts for Maridalia\_71:

(2, 46248), (Start: 3 @46257 has 14 MA's), (8, 46314), (11, 46359), (21, 46464), (22, 46467), (23, 46497), (30, 46695), (32, 46860),

Gene: Morkie\_66 Start: 38257, Stop: 39063, Start Num: 3

Candidate Starts for Morkie\_66:

(Start: 3 @38257 has 14 MA's), (6, 38308), (10, 38341), (25, 38488), (29, 38554), (30, 38599), (34, 38824),

Gene: OneDirection\_60 Start: 35671, Stop: 36477, Start Num: 3

Candidate Starts for OneDirection\_60:

(Start: 3 @35671 has 14 MA's), (6, 35722), (10, 35755), (25, 35902), (29, 35968), (30, 36013), (34, 36238),

Gene: Phabuloso\_95 Start: 50041, Stop: 50838, Start Num: 3

Candidate Starts for Phabuloso\_95:

(Start: 3 @50041 has 14 MA's), (6, 50092), (10, 50125), (25, 50272), (29, 50338),

Gene: PhorbesPhlower\_64 Start: 37661, Stop: 38458, Start Num: 3

Candidate Starts for PhorbesPhlower\_64:

(Start: 3 @37661 has 14 MA's), (6, 37712), (10, 37745), (13, 37781), (27, 37904), (34, 38228),

Gene: RavenCo17\_67 Start: 46154, Stop: 47035, Start Num: 4

Candidate Starts for RavenCo17\_67:

(Start: 4 @46154 has 2 MA's), (9, 46229), (14, 46280), (17, 46304), (24, 46364), (31, 46514), (32, 46670),

Gene: Sleepyhead\_58 Start: 38152, Stop: 39009, Start Num: 12

Candidate Starts for Sleepyhead\_58:

(1, 37978), (7, 38086), (Start: 12 @38152 has 1 MA's), (15, 38167), (16, 38185), (18, 38197), (20, 38227), (23, 38278), (26, 38359), (28, 38428), (33, 38734), (34, 38749), (36, 38830),

Gene: ThankyouJordi\_71 Start: 48385, Stop: 49353, Start Num: 3

Candidate Starts for ThankyouJordi\_71:

(2, 48376), (Start: 3 @48385 has 14 MA's), (5, 48403), (8, 48442), (19, 48568), (21, 48592), (23, 48625), (30, 48823), (32, 48988),

Gene: WelcomeAyanna\_71 Start: 48532, Stop: 49500, Start Num: 3

Candidate Starts for WelcomeAyanna\_71:

(2, 48523), (Start: 3 @48532 has 14 MA's), (5, 48550), (8, 48589), (19, 48715), (21, 48739), (23, 48772), (30, 48970), (32, 49135),